

Appl. No. : 09 0,169
Filed : January 26, 2001

No new matter has been added. If approved, Applicants will incorporate these changes in a Submission of Formal Drawings.

Although no fees are believed to be due, please charge any fees, including any fees for extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 6-8-01

By: Ginger R. Dreger

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AMEND
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Appl. No. : 09 0,169
Filed : January 26, 2001

represent the recombination breakpoints defined from recombination assay. The primer positions for amplification of the Sp-Se recombinational products are also indicated.--

Remarks

The specification has been amended to include the use of the assigned sequence identifiers in all instances where the description discusses such sequences. The amendments to the specification are of formal nature, and do not add new matter.

Sequence Rule Compliance

Along with the present Amendment, Applicants file a Sequence Listing in both paper and computer readable format (CRF) along with a statement that the paper and CRF forms of the Sequence Listing are the same and do not add new matter to the specification. The entry of the Sequence Listing, which is in full compliance with the requirement of 37 C.F.R. § 1.821 through 1.825, is respectfully requested.

Attached hereto is a marked-up version of the changes made to the specification by the current amendment. The attached page is captioned "**Version with markings to show changes made.**"

Although no fees are believed to be due at this time, please charge any fees, including any fees for extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: February 22, 2001

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Version with markings to show changes made

In the Specification:

The paragraph beginning at page 7, line 5, has been amended as follows:

--Figure 4 shows nucleotide sequences (SEQ ID NOs: 19, 21, 22, 24, 25, 27, 28, 30, 31, 33, 34, 36, 37, 39, 40, 42, 43, 45, 46 and 48) surrounding the recombination breakpoints from the PCR clones hybridizing to either the S μ or S γ 2 probes. The homologous sequences in the breakpoints are in bold. The numbers in the end of each sequence represent the position of last nucleotide that serves as the reference for the position of the recombination breakpoints.

- A. The sequences surrounding the breakpoints in clones representing S μ -S γ 2 recombination sites in genomic DNA derived from the switch construct. A total of 13 clones were sequenced and four of them are shown (SEQ ID NOs: 20, 23, 26 and 29).
- B. The sequence surrounding the breakpoints in clones representing the excised circular DNA resulting from S γ 2-S μ recombination. A total of 6 clones were sequenced and four of them are shown (SEQ ID NOs: 32, 35, 38 and 41).
- C. The sequence surrounding the breakpoints from the clones representing the S μ -CD2 recombination in genomic DNA. A total of 3 clones were sequenced and two of them are shown (SEQ ID NOs: 44 and 47).--

The paragraph beginning at page 10, line 11 has been amended as follows:

--Figure 14 shows the nucleotide sequences (SEQ ID NOs: 49, 51, 52, 54, 55, 57, 58, 60, 61, 63, 64, 66, 67, 69, 70, 72, 73, 75, 76, 78, 79, 81, 82, 84, 85, 87, 88, 90, 91, 93, 94, 96, 97, 99, 100, 102, 103, 105, 106 and 108) surrounding the retained recombination breakpoints. The recombinational breakpoints are indicated by arrows with the referenced nucleotide position according to the published sequences (Lyon and Aguilera, Mol. Immunol. 34:209-219 (1997)). The sequences homologous between S μ and S ϵ are bold. (A) Nucleotide sequences surrounding the recombination breakpoints derived from recombination assay-derived clones of SEQ ID NOs: 50, 53, 56, 59, 62, 65, 68, 71, 74 and 77. (B) Nucleotide sequences surrounding the recombination breakpoints derived from direct PCR-generated clones of SEQ ID NOs: 80, 83, 86, 89, 92, 95, 98, 101, 104 and 107 without bacterial transformation. (C) Summary of location of all the recombination breakpoints defined from recombination assay and PCR amplification

Appl. No. : 09 00,169
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assigned to S μ and S ϵ regions is p77D3.11. The arrows in the top row represent the recombination breakpoints defined from PCR amplification, whereas those in the lower row represent the recombination breakpoints defined from recombination assay. The primer positions for amplification of the S μ -S ϵ recombinational products are also indicated.--

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